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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,731	03/04/2004	Severino Colombo	22106-00053-US	5307	
30678	7590 08/09/2006		EXAM	EXAMINER	
	LY BOVE LODGE & H	AMAYA, CARLOS DAVID			
SUITE 800 1990 M STF	REET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036-3425			2836		
			DATE MAILED: 08/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				Θ		
		Application No.	Applicant(s)	12		
Office Action Summary		10/791,731	COLOMBO ET AL.	:		
		Examiner	Art Unit			
		Carlos Amaya	2836			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	the correspondence address	;		
WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMPINS OF THE MAILI	ATE OF THIS COMMUNIC, 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONTHS, cause the application to become ABA	ATION. All be timely filed All from the mailing date of this community NDONED (35 U.S.C. § 133).			
Status				:		
1)⊠	Responsive to communication(s) filed on 03/04	4/2004.				
	This action is FINAL . 2b) This action is non-final.					
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	ion of Claims					
5)⊠ 6)□ 7)□	Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1-8</u> is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>03/04/2004</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	☐ accepted or b) ☑ objected drawing(s) be held in abeyanc tion is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.1			
Priority (under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmer	• •					
2) Notice No	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		/Mail Date ormal Patent Application (PTO-152)) .		

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a) because Applicant fails to identify each of the boxes in figures 1-3. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 1 is objected to because of the following informalities: A broad range or limitation should not be followed by a narrow range or limitation. The phrase "in

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particular for low-voltage multipolar automatic circuit-breaker" is a narrow range of the broader range "low-voltage circuit -breaker" and should be deleted. Appropriate correction is required.

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Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if

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the required "Sequence Listing" is not submitted as an electronic document on compact disc).

ABSTRACT

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Allowable Subject Matter

- 4. Claims 1-8 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: With respect to claim 1 May (US 4,947,126) discloses a ground fault current rectification and measuring circuit of Figure 1 comprising current transformers 10, 12, 14, 16 that are used to provide signals representative of the currents in phase A, B, C, and N. Full wave rectifiers 18, 20, 22, and 24 rectify these signals; the rectified signals are fed to circuits of Figures 2 and 3. Figure 3 shows amplifiers 50, and 52 for summing and amplifying the signals from the full wave rectifier. The output signals at terminals

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54 and 56 of Figure 3 and 94, 96, 98, 100 of Figure 2 are supplied to a microprocessor for further analysis and decision making.

However, May does not disclose a "first numerical-processing means, the input of which is operatively connected to said means for detection of the sign of the current and to said rectifying means, said first processing means supplying at output, with a predetermined periodicity, a value with sign representing a ground fault by means of a numerical-processing operation that comprises multiplication for each pole of said two-level signal with the corresponding rectified signal proportional to the current circulating in said pole".

5. This application is in condition for allowance except for the above matters:

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed the examiner's supervisor, Brian Sircus who can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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